HW#12: Name, Classify, & Measure Angles

Geometry

Due Date: Wednesday, Sept. 19th, 2012

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Directions:** Failure to show all work and write in complete sentence will result in LaSalle!

Name three angles in each picture. Then, name the vertex of all three angles.

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| 1) | 2)  *M* | 3)  *R* |

Give another name for the angle in the diagram. Tell whether the angle appears to be acute, obtuse, right, or straight.

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| **4)**     |  |  | | --- | --- | | 1. ∠*JKN* 2. ∠*KMN* 3. ∠*PQM* 4. ∠*JML* 5. ∠*QPN* 6. ∠*PLK* | \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | **5)**     |  |  | | --- | --- | | 1. ∠*HGM* 2. ∠*KLG* 3. ∠*KJM* 4. ∠*JKL* 5. ∠*HML* 6. ∠*GJK* | \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

Tell whether the statement is *always, sometimes,* or *never* true*. Explain* yourreasoning (use examples!)

6) The measures of two acute angles add up to 90°.

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| 1) Write an equation in slope-intercept form of a line that passes through the points (-2, 5) and (4, 7) | 2) If a line has a slope of and passes through the point (3, 7), write an equation for this line in slope-intercept form. |
| 3) Write an equation for a line parallel to and travels through the point  (5, -2) | 4) Circle the equation of the line with the steepest slope.  2x = 6 – 2y  7x = 5 – y  0 = -2 + x + y  -y + -8x = -3 |